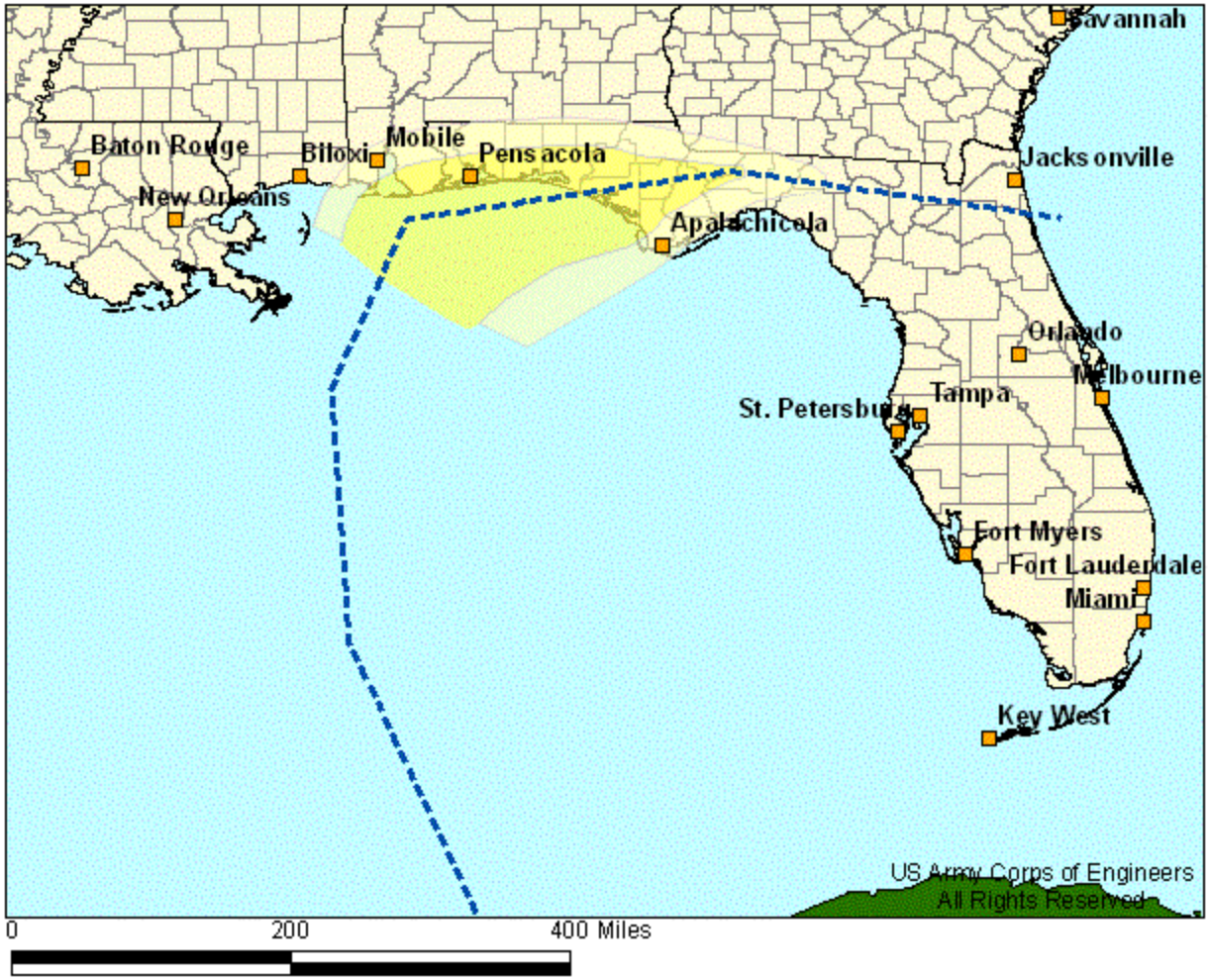
US Army Corps of Engineers

Hurricane Ida Projected Damage Areas

Landfall Expected In About 55 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 1 storm making landfall on the FL panhandle.

Forecast Track
Historic Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a projected or actual Category 1 storm making landfall on the FL panhandle. These projections are based on information from the NHC (1000 EDT 11/08/2009) forecast and extrapolated by LRL staff to represent a landfall condition that has either occurred or may occur in the near future.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

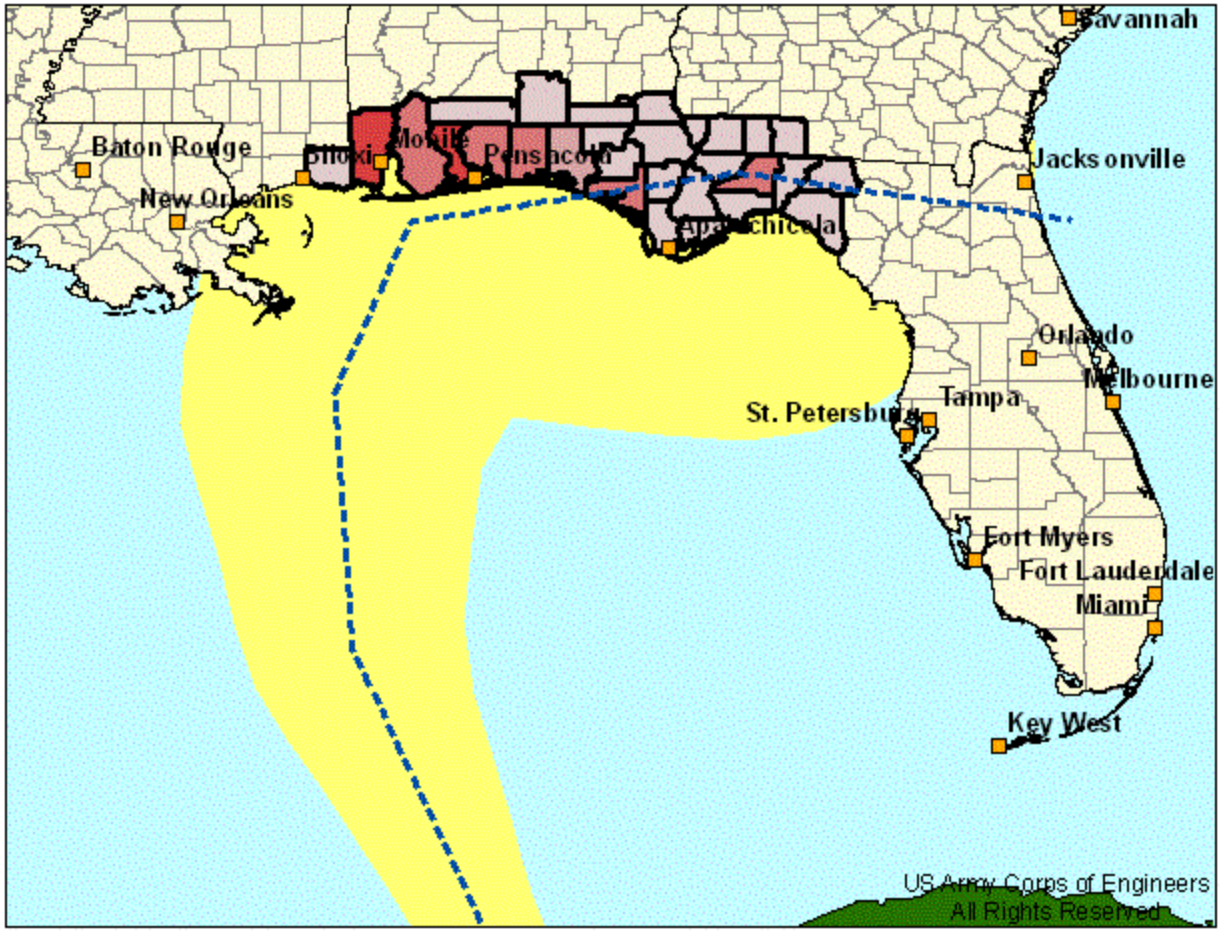
Hurricane Ida Projected Damage Areas	
Generated By: Siemsen, LRL 1130 EDT 11/08/2009	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 11

US Army Corps of Engineers

Hurricane Ida Debris Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Florida - 2,731,000 Yards
Alabama - 951,000 Yards
Mississippi - 75,000 Yards
Georgia - 14,000 Yards

Model results per County on following page

This model is based on a Category 1 storm making landfall on the FL panhandle.

Forecast Track
Historic Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 1 storm making landfall on the FL panhandle. These projections are based on information from the NHC (1000 EDT 11/08/2009) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ida Debris Model

Generated By:
Siemsen, LRL 1130 EDT 11/08/2009

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ida Debris Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Alabama		Baldwin County	433,000
		Covington County	4,000
		Escambia County	2,000
		Geneva County	9,000
		Houston County	< 1,000
		Mobile County	503,000
Alabama	951,000		
Florida		Bay County	410,000
		Calhoun County	54,000
		Escambia County	538,000
		Franklin County	15,000
		Gadsden County	82,000
		Gulf County	39,000
		Holmes County	31,000
		Jackson County	85,000
		Jefferson County	23,000
		Leon County	322,000
		Liberty County	31,000
		Madison County	9,000
		Okaloosa County	431,000
		Santa Rosa County	328,000
		Taylor County	4,000
		Wakulla County	41,000
		Walton County	219,000
		Washington County	69,000
Florida	2,731,000		
Georgia		Decatur County	7,000
		Grady County	2,000
		Seminole County	3,000

State	Yards per State	County	Yards per County
Georgia		Thomas County	2,000
Georgia	14,000		
Mississippi		Jackson County	75,000
Mississippi	75,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Ida Debris Model

Generated By:
Siemsen, LRL 1130 EDT 11/08/2009

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ida Commodities Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!

Post Landfall Water Model Results

Day One / Day Two / Day Three
Florida – 11/22/44 Truckloads
Alabama – 1/2/5 Truckloads

Model results per County on following page

This model is based on a Category 1 storm making landfall on the FL panhandle.

Forecast Track
Historic Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 1 storm making landfall on the FL panhandle. These projections are based on information from the NHC ***(1000 EDT 11/08/2009)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents daily needs with a ramp-up in the distribution system – three days for Points of Distribution (PODs) to be fully in place and operational. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ida Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 11/08/2009

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ida Commodities Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Alabama		Baldwin County	4
		Mobile County	1
Alabama	5		
Florida		Bay County	7
		Calhoun County	1
		Escambia County	10
		Gadsden County	1
		Gulf County	1
		Holmes County	1
		Jackson County	1
		Leon County	4
		Liberty County	1
		Okaloosa County	7
		Santa Rosa County	6
		Wakulla County	1
		Walton County	2
		Washington County	1
Florida	44		

Source: US Army Corps of Engineers, All Rights Reserved

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested daily needs based on full deployment of a commodities distribution system. Volume shown is for each commodity – water and ice. Commodity need may be supplied by multiple agencies and/or sources.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ida Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 11/08/2009

Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ida Temporary Roofing Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!

Post Landfall Temporary Roofing Model Results

Florida - 8,800
Alabama - 1,100

Model results per County on following page

This model is based on a Category 1 storm making landfall on the FL panhandle.

Forecast Track
Historic Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 1 storm making landfall on the FL panhandle. These projections are based on information from the NHC (1000 EDT 11/08/2009) forecast. Temporary roofing is based on 3% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ida Roofing Model	
Generated By: Siemsen, LRL 1130 EDT 11/08/2009	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 11

US Army Corps of Engineers

Hurricane Ida Temporary Roofing Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Alabama		Baldwin County	1,100
		Mobile County	< 100
Alabama	1,100		
Florida		Bay County	1,500
		Calhoun County	200
		Escambia County	2,700
		Gadsden County	200
		Gulf County	200
		Holmes County	< 100
		Jackson County	< 100
		Leon County	800
		Liberty County	< 100
		Okaloosa County	1,400
		Santa Rosa County	1,200
		Wakulla County	< 100
		Walton County	400
		Washington County	200
Florida	8,800		

Temporary roofing is based on 3% in CAT 1.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Source: US Army Corps of Engineers, All Rights Reserved

Hurricane Ida Roofing Model

Generated By:
Siemsen, LRL 1130 EDT 11/08/2009

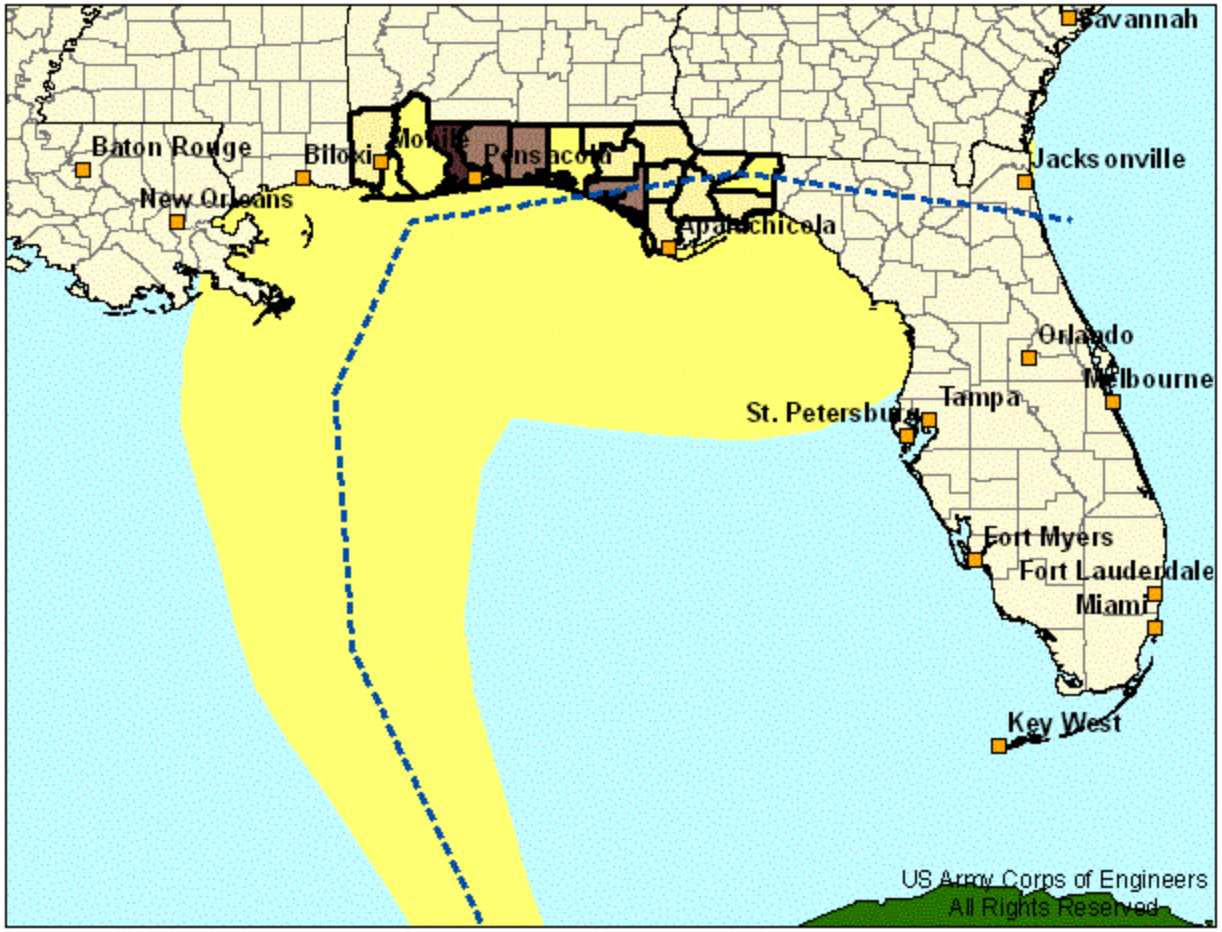
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ida Population Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Florida - 921,000
Alabama - 89,000

Model results per County on following page

This model is based on a Category 1 storm making landfall on the FL panhandle.

Forecast Track
Historic Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 1 storm making landfall on the FL panhandle. These projections are based on information from the NHC (1000 EDT 11/08/2009) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2008 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ida Population Model	
Generated By: Siemsen, LRL 1130 EDT 11/08/2009	
Sources: HURREVAC LRL-DEBRIS	Page 8 of 11

US Army Corps of Engineers

Hurricane Ida Population Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Alabama		Baldwin County	86,000
		Mobile County	3,000
Alabama	89,000		
Florida		Bay County	165,000
		Calhoun County	14,000
		Escambia County	285,000
		Gadsden County	16,000
		Gulf County	10,000
		Holmes County	< 1,000
		Jackson County	3,000
		Leon County	89,000
		Liberty County	7,000
		Okaloosa County	148,000
		Santa Rosa County	128,000
		Wakulla County	< 1,000
		Walton County	41,000
		Washington County	15,000
Florida	921,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2008 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Ida Population Model

Generated By:
Siemsen, LRL 1130 EDT 11/08/2009

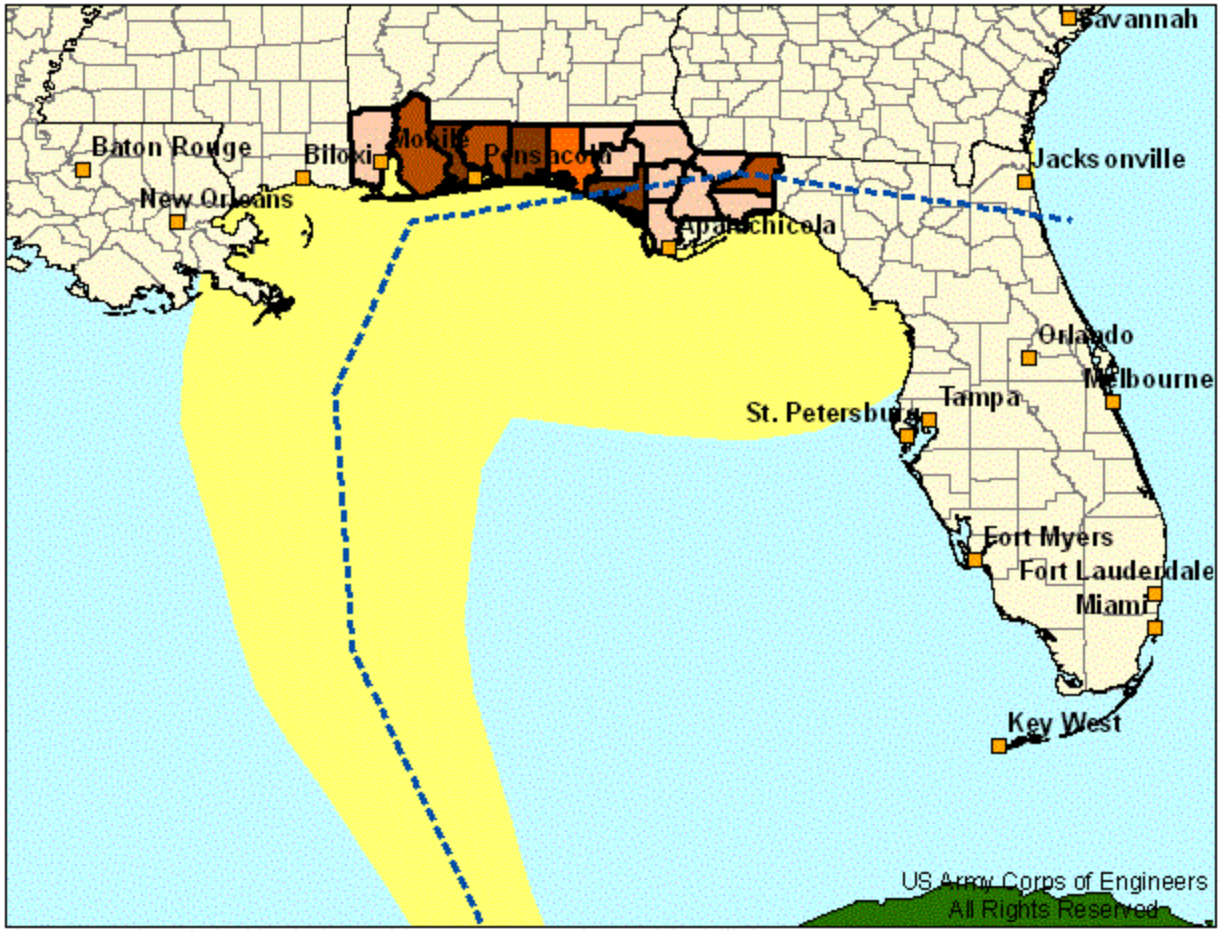
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Ida Households Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

Florida - 361,000
Alabama - 35,000

Model results per County on following page

This model is based on a Category 1 storm making landfall on the FL panhandle.

Forecast Track
Historic Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 1 storm making landfall on the FL panhandle. These projections are based on information from the NHC (1000 EDT 11/08/2009) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2008 values).

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Ida Households Model	
Generated By: Siemsen, LRL 1130 EDT 11/08/2009	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 11

US Army Corps of Engineers

Hurricane Ida Households Model

Landfall Expected In About 55 Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Alabama		Baldwin County	35,000
		Mobile County	< 1,000
Alabama	35,000		
Florida		Bay County	66,000
		Calhoun County	5,000
		Escambia County	109,000
		Gadsden County	6,000
		Gulf County	4,000
		Holmes County	< 1,000
		Jackson County	2,000
		Leon County	37,000
		Liberty County	2,000
		Okaloosa County	59,000
		Santa Rosa County	48,000
		Wakulla County	< 1,000
		Walton County	17,000
		Washington County	6,000
Florida	361,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2008 values.

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Hurricane Ida Households Model

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